

POLYFORT® PPH GF 30 U WHITE 81800

Polypropylene Homopolymer
Engineering Plastics

Product Description

30% glass fiber reinforced PP-Homopolymer chemically coupled, UV-stabilized

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Chemically Coupled	• Homopolymer	• UV Stabilized
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.15 g/cm ³	1.15 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	11 cm ³ /10min	11 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	943000 psi	6500 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	10900 psi	75.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.2 %	2.2 %	ISO 527-2/1A/5
Flexural Modulus ¹	870000 psi	6000 MPa	ISO 178
Flexural Stress ¹			ISO 178
3.4% Strain	18600 psi	128 MPa	
3.6% Strain ²	18300 psi	126 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	3.3 ft·lb/in ²	7.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	19 ft·lb/in ²	40 kJ/m ²	ISO 179/1eU
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	17400 psi	120 MPa	ISO 2039-1
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	275 °F	135 °C	ISO 75-2/Af
Vicat Softening Temperature	325 °F	163 °C	ISO 306/A50
Ball Pressure Test (293°F (145°C))	Pass	Pass	IEC 60695-10-2
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	2.4 in/min	60 mm/min	ISO 3795
0.0787 in (2.00 mm)	2.4 in/min	60 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in (1.5 mm)	1430 °F	775 °C	
0.12 in (3.0 mm)	1430 °F	775 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in (1.5 mm)	1470 °F	800 °C	
0.12 in (3.0 mm)	1470 °F	800 °C	



POLYFORT® PPH GF 30 U WHITE 81800

Polypropylene Homopolymer
Engineering Plastics

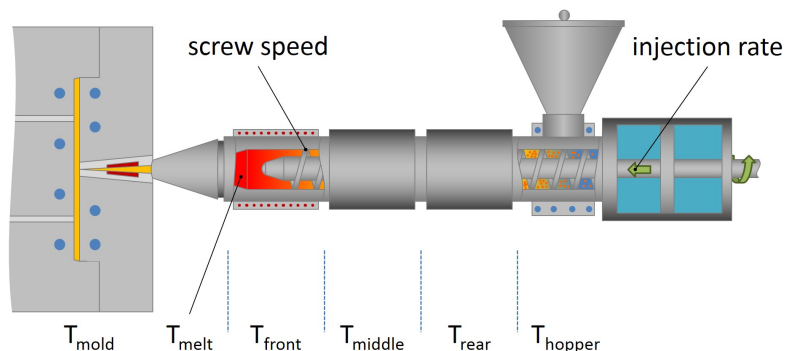
Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications



POLYFORT® PPH GF 30 U WHITE 81800

Polypropylene Homopolymer
Engineering Plastics



Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	446 to 518 °F	230 to 270 °C
Mold Temperature	104 to 158 °F	40 to 70 °C

Injection Notes

Drying normally not necessary.

Injection molding parameters also influence emission properties, which are often required for automotive interior applications. Generally speaking, the emission, odor and fogging behavior of finished parts is improved by lowering the melt temperature, reducing residence time and avoiding high shear stress.

